

Time Table

Nov. 25 (Sun)	Nov. 26 (Mon)	Nov. 27 (Tue)
	9:00 Registration	9:00 Registration
	9:30 Opening ceremony	9:40 Plenary lectures
	10:00 Plenary lectures	
	10:40-11:10 coffee break	10:20-10:50 coffee break
	11:10 Plenary lectures	10:50 Plenary lectures
	11:50 Poster preview (#1-41 odd number)	11:50 Poster preview (#2-42 even number)
	12:10-13:30 lunch	12:10-13:30 lunch
	13:30 Poster preview (#43-89 odd number)	13:30 Poster preview (#44-90 even number)
	13:50 Poster (odd number)	13:50 Poster (even number)
15:00-18:00 Registration	15:30 Plenary lectures	15:30 Plenary lectures
	16:10-16:40 coffee break	16:10-16:40 coffee break
	16:40 Plenary lectures	16:40 Plenary lectures
18:00-20:00 Welcoming party	17:40 Plenary discussion	17:20 Plenary discussion
	18:30-20:30 Banquet (Seminar Plaza - Suzukakedai)	18:50 Closing ceremony

Program

Nov. 26 (Mon)

- 9:30-10:00 **Opening ceremony** T. Atake, presiding
Eiichi Yasuda (Director, Materials and Structures Laboratory, Tokyo Institute of Technology)
Ichiro Hatta (Chairman, The Japan Society of Calorimetry and Thermal Analysis)
Hiroo Inokuchi (Professor Emeritus, The University of Tokyo; National Space Development Agency of Japan)
Edgar F. Westrum, Jr. (Professor, Department of Chemistry, The University of Michigan)
- 10:00-10:20 **Plenary lecture 1 (p-13)**
Thermal characteristics in a nanometer scale
Ichiro Hatta (Dept. Appl. Phys, Nagoya Univ., Japan)
- 10:20-10:40 **Plenary lecture 2 (p-45)**
Microscale temperature measurement by scanning thermal microscopy
Osamu Nakabeppu (Dept. Mechanical Sci. & Eng., Tokyo Inst. Technol., Japan)
- 10:40-11:10 **coffee break**
- 11:10-11:30 **Plenary lecture 3 (p-17)**
The role of dynamic calorimetry in the development of new materials: the case of a magnetocaloric material
Yoon Hee Jeong (Dept. Phys., Pohang Univ. Sci. Technol., Korea)
- 11:30-11:50 **Plenary lecture 4 (p-39)**
Principle and application of temperature wave analysis
Junko Morikawa (Dept. Organic & Polymeric Mater., Tokyo Inst. Technol., Japan)
- 11:50-12:10 **Poster preview (#1-41 odd numbers)**
- 12:10-13:30 **lunch**
- 13:30-13:50 **Poster preview (#43-89 odd numbers)**
- 13:50-15:30 **Poster presentation (odd numbers)**
- 15:30-15:50 **Plenary lecture 5 (p-71)**
Calorimetry of rapidly quenched glasses. A window onto the energy landscape of liquids
C. Austen Angell (Dept. Chem. & Biochem., Arizona State Univ., USA)

- 15:50-16:10** **Plenary lecture 6 (p-51)**
Development of cooperativity in the molecular dynamics of glass-formers: synergy of thermodynamics and intermolecular coupling
K.L. Ngai (Naval Research Laboratory, USA)
- 16:10-16:40** **coffee break**
- 16:40-17:00** **Plenary lecture 7 (p-23)**
A one-dimensional model for thermal conductivity
Kazuo Kitahara (Dept. Phys., Inter. Christian Univ., Japan)
- 17:00-17:20** **Plenary lecture 8 (p-61)**
Steady state thermodynamics - Proposal of a new thermodynamic framework for steady heat conduction
Hal Tasaki (Dept. Phys., Gakushuin Univ., Japan)
- 17:20-17:40** **Plenary lecture 9 (p-25)**
Mixing schemes in ternary aqueous solutions: A thermodynamic approach
Yoshikata Koga (Dept. Chem., Univ. British Columbia, Canada)
- 17:40-18:10** **Plenary discussion J. Boerio-Goates and S. Stølen, presiding**
- 18:30-20:30** **Banquet (Stand-up buffet dinner) at Seminar Plaza - Suzukakedai**

Nov. 27 (Tue)

- 9:40-10:00** **Plenary lecture 10 (p-18)**
Three-dimensional structure and thermal stability of enzyme-(stereo-isomeric inhibitor) complex
Shun-ichi Kidokoro (Dept. Bioeng., Nagaoka Univ. Technol., Japan)
- 10:00-10:20** **Plenary lecture 11 (p-40)**
A novel calorimetric method for the characterization of water adsorbed on “soft” biopolymer surfaces
P. Westh (Dept. Chem., Roskilde Univ., Denmark)
- 10:20-10:50** **coffee break**
- 10:50-11:10** **Plenary lecture 12 (p-50)**
Oxide melt solution calorimetry of rare earth containing ternary oxides: techniques, problems, crosschecks, successes
Alexandra Navrotsky (Dept. Chem. Eng. & Mater. Sci., Univ. California Davis, USA)

- 11:10-11:30 **Plenary lecture 13 (p-80)**
The role of materials thermodynamics in developments of high temperature electrochemical devices
Harumi Yokokawa (Natl. Inst. Adv. Ind. Sci. Technol., Japan)
- 11:30-11:50 **Plenary lecture 14 (p-8)**
Adiabatic heat capacity measurements - A useful tool to show low temperature phenomena in materials
J. Boerio-Goates (Dept. Chem. & Biochem., Brigham Young Univ., USA)
- 11:50-12:10 **Poster preview (#2-42 even numbers)**
- 12:10-13:30 **lunch**
- 13:30-13:50 **Poster preview (#44-90 even numbers)**
- 13:50-15:30 **poster presentation (even numbers)**
- 15:30-15:50 **Plenary lecture 15 (p-28)**
Calorimetric study of nanocrystallization in amorphous oxides
Jili Málek (Joint Lab. Solid State Chem, Acad. Sci. Czech Repub. Univ. Pardubice, Czech)
- 15:50-16:10 **Plenary lecture 16 (p-6)**
Calorimetric study of magnetic ordering in molecular magnetic materials
Ramon Burriel (Inst. Ciencia Mater. Aragon, Univ. Zaragoza, Spain)
- 16:10-16:40 **coffee break**
- 16:40-17:00 **Plenary lecture 17 (p-56)**
Enthalpy, volume and structural relaxation in glass-forming silicate melts
Pascal Richet (Inst. Phys. Globe, Paris, France)
- 17:00-17:20 **Plenary lecture 18 (p-64)**
Pressure and temperature induced connectivity changes in the glass-forming tetrahedral network compound GeSe₂
Svein Stølen (Dept. Chem., Univ. Oslo, Norway)
- 17:20-18:50 **Plenary discussion J. Boerio-Goates and S. Stølen, presiding**
- 18:50 **Closing ceremony T. Atake, presiding**

Posters (* invited paper)

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Effects of doped Li on thermal behavior of PAS electrode for Li ion battery

N. Ando, S. Tasaki, Y. Hato, C. Marumo, Y. Natsume, A. Ito and K. Tanaka (Kanebo Ltd & Kyoto Univ.)

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A model for the fragility of the melts

M. Aniya (Kumamoto Univ.)

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Phase transition of CuITe

M. Arai, T. Sakuma, T. Atake and H. Kawaji (Ibaraki Univ.)

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Thermoelectric properties of Ru_2Si_3 prepared by SPS method

Y. Arita, S. Mitsuda and T. Matsui (Nagoya Univ.)

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Phase transition and the halogen-substitution effect on its properties in crystalline pyridinium tetrahalogenoaurate(III)

H. Fujimori, T. Asaji, M. Hanaya and M. Oguni (Nihon Univ. & Tokyo Inst. Technol.)

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Calorimetric study of magnetic ordering in molecular magnetic materials

R. Burriel (Univ. Zaragoza)

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Enthalpies of dilution of mono-, di- and poly-alcohols in dilute aqueous solutions

M. Fujisawa, M. Maeda, S. Takagi and T. Kimura (Kinki Univ.)

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Adiabatic heat capacity measurements - A useful tool to study low temperature phenomena in materials

J. Boerio-Goates, B.F. Woodfield, B. Laing, J. Linford and R. Stevens (Brigham Young Univ.)

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Microstructural control of α -silicon nitride ceramics to improve thermal conductivity

K. Furuya, F. Munakata, K. Matsuo, Y. Akimune, J. Ye and A. Okada (Nissan Motor Co. Ltd., Natl. Inst. Adv. Ind. Sci. Technol. & Nissan Arc Ltd.)

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Molecular dynamics study of dynamical heterogeneity in ion conducting glasses

J. Habasaki and Y. Hiwatari (Tokyo Inst. Technol. & Kanagawa Univ.)

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Characterization of structural phase transitions of $\text{Ba}_{2-x}\text{Sr}_x\text{In}_2\text{O}_5$ with thermal analysis and high temperature X-ray diffraction

T. Hashimoto, M. Yoshinaga, Y. Ueda, K. Komazaki and K. Asaoka (Nihon Univ.)

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Hydrogen added carbothermic reduction of iron-manganese oxide with thermal analysis

T. Hashizume, K. Terayama, T. Shimazaki, H. Itoh and Y. Okuno (Toyama Univ.)

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Thermal characteristics in a nanometer scale

I. Hatta (Nagoya Univ.)

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Thermal property and ionic conductivity of polymer electrolyte plasticized with PEG-borate ester

K. Hasumi, Y. Kato, S. Yokoyama, T. Yabe, H. Ikuta, Y. Uchimoto and M. Wakihara (Tokyo Inst. Technol. & NOF Co.)

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DTA measurements of Fe₂O₃ nanoparticle system

Y. Ichiyangi and Y. Kimishima (Yokohama Natl. Univ.)

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Thermal analysis of a microscopic region using the micro thermal probe technique

Y. Imaishi, T. Yamane, T. Tanikawa, T. Hosoi, K. Ishikiriya and M. Todoki (Toray Res. Center, Inc.)

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The role of dynamic calorimetry in the development of new materials: the case of a magnetocaloric material

Y.H. Jeong (Pohang Univ. Sci. Technol.)

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Three-dimensional structure and thermal stability of enzyme-(stereo-isomeric inhibitor) complex

S. Kidokoro, M. Senda, T. Senda and T. Ogi (Nagaoka Univ. Technol., Tokyo Inst. Technol. & Natl. Inst. Adv. Ind. Sci. Technol.)

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Oxide ion conductivity of (Ba, Sr, La)₂(In, M)₂O_y (M=Y, Zr, Ce, Mg)

K. Kakinuma, H. Yamamura and T. Atake (Kanagawa Univ. & Tokyo Inst. Technol.)

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The metastable cholic acid obtained by the elimination of guest molecules from crystalline inclusion-complexes

T. Kimura and S. Takagi (Kinki Univ.)

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T. Kimura, T. Matsushita, K. Suzuki and S. Takagi (Kinki Univ.)

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H. Kitahara, N. Tsumura, M.W. Takeda, T. Yamaguchi, S. Kojima and S. Nishizawa (Shinshu Univ., Meisei Univ. & Univ. Tsukuba)

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A one-dimensional model for thermal conductivity

M. Sano and K. Kitahara (Intl. Christian Univ.)

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Length scale of the glass transition studied by impulsive stimulated thermal scattering

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Mixing schemes in ternary aqueous solutions: A thermodynamic approach

Y. Koga (Univ. British Columbia & Chiba Univ.)

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Anharmonicity and fragility in lithium borate glasses

M. Kodama and S. Kojima (Sojo Univ. & Univ. Tsukuba)

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Y. Kuroiwa, S. Aoyagi, A. Sawada, E. Nishibori, M. Takata, M. Sakata and J. Harada (Okayama Univ., Nagoya Univ. & Rigaku Co.)

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Thermoelectric properties of uranium containing skutterudites $U_yFe_xCo_{4-x}Sb_{12}$ ($x=1, y=0.2$)

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Heat capacities of $(R, R')AlO_3$ ($R, R' = Y, La, Lu$) crystals

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Enthalpies of mixing of enantiomers in solution

T. Kimura, T. Matsushita, F. Akhtar and T. Kamiyama (Kinki Univ.)

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T. Matsuo, A. Inaba and O. Yamamuro (Osaka Univ.)

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High temperature heat capacities of titanium and ruthenium oxides

T. Mitsuhashi, A. Watanabe and K. Sakai (Natl. Inst. Mater. Sci.)

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Magnetic-field-dependent heat capacity of $Ni(OH)_2$ nanocluster in amorphous SiO_2

Y. Miyazaki, Y. Ichiyanagi, Y. Kimishima and M. Sorai (Osaka Univ. and Yokohama Natl. Univ.)

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A novel calorimetric method for the characterization of water adsorbed on “soft” biopolymer surfaces

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